Structural heating panel



- Rapid, even heat distribution
- Structural panel spanning joists or battens
- Dry construction
- Recyclable

PRODUCT DESCRIPTION

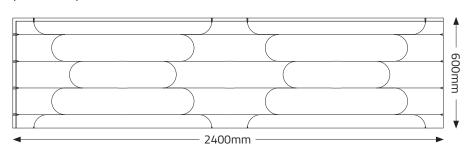
Structural heat distributing panel, once properly prepared, for ceramic tiles and natural stone, as well as for parquet, multi-layer parquet, laminate and LVT and PVC. Designed for even heat distributing over hydronic underfloor heating and cooling systems using timber joists or battens.

The BauFloor heat distributing panel is a chipboard with aluminium face based board which is a recyclable product. The plywood 'top panel' (by others) should be a minimum 6mm Flooring grade plywood glued an screwed in place.



DIMENSIONS

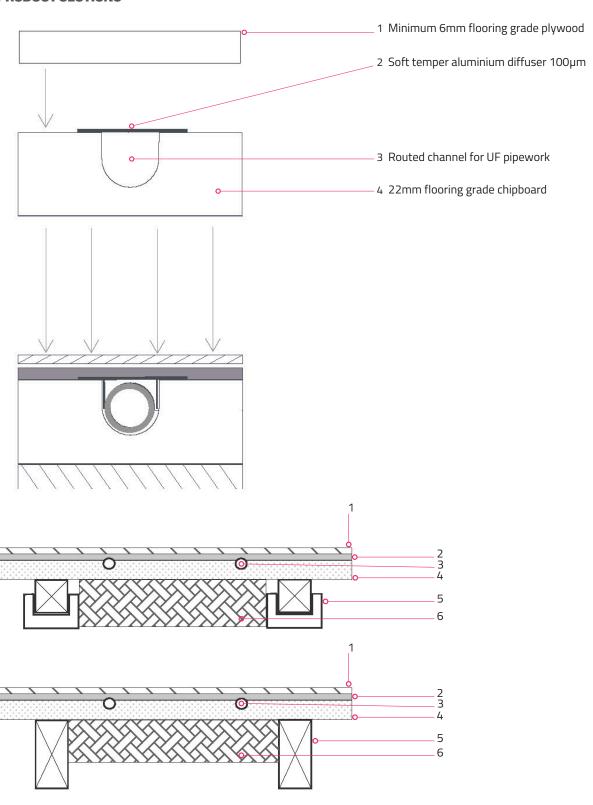
(Not to scale)



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PRODUCT SECTIONS



- 1 Floor finish
- 2 Minimum 6mm Flooring Grade Plywood
- 3 12mm UF pipework
- 4 BauFloor structural panel with aluminium diffuser
- 5 Joist or acoustic support system
- 6 Insulation layer

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TECHNICAL DATA

CONSTRUCTION TYPE	BS EN 1264-2 Type B		
STRUCTURAL PERFORMANCE	BauFloor panel fixed over: Acoustic battens over structural floor by others Standard floor joists by others Max. joist/batten spacing of 600mm cc BauFloor panels are Independently tested for strength compared to a standard 22mm chipboard panel with joists @ 600mm c-c = pass with min. 6mm MDF mechanically fixed to chipboard with 12mm pipe channels at 150m c-c		
WEIGHT BEARING LAYER	Plywood		
WEIGHT BEARING LAYER THICKNESS	6mm		
WEIGHT BEARING LAYER FIXING	Bonded and screwed through to structural board using ??????? type screws		
WEIGHT BEARING LAYER DIMENSION	By others		
THERMAL DIFFUSION LAYER	Aluminium strips		
THERMAL DIFFUSION LAYER THICKNESS	LAYER THICKNESS 100 μm		
THERMAL DIFFUSION LAYER CONDUCTIVITY	200 W/mK		
THERMAL INSULATION TYPE	By others		
THERMAL INSULATION CONDUCTIVITY	By others		
THERMAL INSULATION GRADE	By others		
ACOUSTIC LAYER	By others		
STRUCTURAL BASEBOARD LAYER	P5 moisture resistant chipboard		
STRUCTURAL BASEBOARD CONDUCTIVITY	0.13 W/mK		
STRUCTURAL BASEBOARD THICKNESS	22mm		
PIPE FIXING METHOD	Grooved channels for 12mm pipework		
STRUCTURAL BASEBOARD FIXING	Mechanically fixed to support structure		
STRUCTURAL BASEBOARD PANEL DIMENSION	Baseboard: 2400x600		
Tolerances cut	+/- 1.0 mm thickness +/- 0.3mm		
FINISHED PANEL THICKNESS	Typically 28mm depending on top board		
SYSTEM WEIGHT	Approx. >20.04 kg/m² depending on top board		
OZONE DEPLETION POTENTIAL (ODP)	-		
RECYCLABLE	Baseboard – Yes Topboard – Yes		

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HEATING PERFORMANCE DRT = 210C, 1.0 Tog covering per BS1264-3

Using 6mm 0.13W/mK PLY board panel

Pipe size	Pipe spacing	Heat output* W/m² @ 60/50 1.0 tog	Heat output* W/m² @ 55/45 1.0 tog	Heat output* W/m² @ 45/38 1.0 tog	Heat output* W/m² @ 35/29 1.0 tog
12 x 1.4	150	80	70	49	26

- * Heat Outputs:
- 1. are indicative for comparison purposes
- 2. are based on design room temperature of 21°C
- 3. are based on effective heated area
- 4. will vary on foiled area around pipe bends
- 5. will increase/decrease depending on the floor covering and weight bearing layer used
- 6. will vary on final floor construction installed.

STRUCTURAL TEST STATEMENT OF PERFORMANCE

Test	STRUCTURAL		
Testing Facility	This independent testing was carried out by an UKAS accredited, external consultancy lab.		
Product	BauFloor		
Construction	22mm P5 BauFloor deck (base) panel with 6mm plywood top panel glued and screwed down.		
Indicative Section			
Statement	This is to confirm that Bauserv BauFloor structure with specific Bauserv BauFloor pattern as described above, assembled as per the Bauserv installation guide, laid over joists or battens at 400mm centres, has been tested in accordance with the British Standards BS EN 1195:1998 and BS EN 12871:2010, assessed against the requirements of Class I of BS EN 12871 Table 4, and has passed.		
Results	Point Load results yielded a preliminary F _{max.est} of 8.31 kN.		

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